

## Listing of Claims

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) A machine-implemented method, comprising:
  - receiving, from a user, a primary term representing a first concept to be added to a machine-readable network of interrelated concepts, wherein a concept comprises a normalized semantic representation;
  - receiving, from the user, at least one related term associated with the primary term and representing the first concept;
  - ~~representing the association between the primary term and the at least one related term to the user on a user interface characterizing the first concept;~~
  - receiving at least one relationship between the first concept and a second concept;
  - receiving a relationship type characterizing the at least one relationship;
  - receiving a strength value characterizing the at least one relationship;
  - ~~representing the association between the primary term and the at least one related term, the at least one relationship, and the relationship type to the user on the user interface;~~
  - receiving a ~~second~~ user request to add the first concept to the machine-readable network of interrelated concepts; and
  - ~~in response to the ~~second~~ user request, adding the first concept to the machine-readable network of interrelated concepts, including adding the primary term, the related term, the relationship between the first concept and the second concept, the relationship type, and the strength value to the machine-readable network of interrelated concepts.~~

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2. (Previously Presented) The method of claim 1, wherein representing the association comprises displaying a concept view.

3. (Previously Presented) The method of claim 1, further comprising receiving information characterizing a part of speech of the first concept.

4. (Previously Presented) The method of claim 1, wherein the relationship comprises a hierarchical relationship or a lateral bond that indicates a proximity of the first concept to the second concept in semantic space.

5. (Previously Presented) The method of claim 1, wherein the relationship type is selected from the group consisting of: kind of, has kind, part of, has part, member of, has member, substance of, has substance, product of, or has product.

6. (Previously Presented) The method of claim 1, further comprising receiving information characterizing a frequency of the primary term.

7. (Previously Presented) The method of claim 1, further comprising receiving information characterizing a likelihood that the primary term and the related terms imply the first concept.

8. (Previously Presented) The method of claim 1, further comprising receiving information characterizing a breadth of the first concept.

9. (Previously Presented) The method of claim 1, further comprising receiving information indicating that the first concept is offensive.

10. (Previously Presented) The method of claim 1, further comprising receiving user data further describing the first concept.

11. (Original) The method of claim 1, further comprising receiving context information.

12. (Currently Amended) A machine-implemented method, comprising:  
receiving, from a user, a request to edit a first concept in a machine-readable network of interrelated concepts, wherein a concept comprises a normalized semantic representation; representing the first concept on a display for the user, that includes including displaying a collection of one or more terms that express the first concept and a description of one or more existing relationships between the first concept and other concepts in the machine-readable network of interrelated concepts;  
receiving, from [[a]] the user, at least one new relationship between the first concept and a second concept;  
receiving a relationship type characterizing a type of the at least one new relationship;  
receiving a strength value characterizing a strength of the at least one new relationship;  
updating the ~~first concept~~ machine-readable network of interrelated concepts to reflect the at least one new relationship, the relationship type, and the strength value; and representing the updated first concept on the display for the user, wherein the display further includes a description of the at least one new relationship.

13. (Previously Presented) The method of claim 12, further comprising receiving a new strength value for one of the existing relationships between the first concept and a third concept.

14. (Previously Presented) The method of claim 12, further comprising receiving a new relationship type for one of the existing relationships between the first concept and a third concept.

15. (Previously Presented) The method of claim 12, wherein the new relationship comprises a hierarchical relationship or a lateral bond that indicates a proximity of the first concept to the second concept in semantic space.

16. (Previously Presented) The method of claim 12, wherein the relationship type is selected from the group consisting of: kind of, has kind, part of, has part, member of, has member, substance of, has substance, product of, or has product.

17. (Previously Presented) The method of claim 12, further comprising receiving information characterizing a new frequency of the primary term.

18. (Previously Presented) The method of claim 12, further comprising receiving information characterizing a new likelihood that a primary term and related terms imply the first concept.

19. (Previously Presented) The method of claim 12, further comprising receiving information characterizing a new breadth of the first concept.

20. (Currently Amended) One or more computer-readable media comprising program code tangibly embodied in machine-readable format and operable to cause one or more machines to perform operations, the operations comprising:

receiving, from a user, a primary term representing a first concept to be added to a

machine-readable network of interrelated concepts, wherein a concept comprises a normalized semantic representation;

receiving, from the user, at least one related term associated with the primary term and representing the first concept;

~~representing the association between the primary term and the at least one related term to the user on a user interface characterizing the first concept;~~

receiving at least one relationship between the first concept and a second concept;

receiving a relationship type characterizing the at least one relationship;

receiving a strength value characterizing the at least one relationship;

representing the association between the primary term and the at least one related term, the at least one relationship, and the relationship type to the user on the user interface;

receiving a ~~second~~ user request to add the first concept to the machine-readable network of interrelated concepts; and

in response to the ~~second~~ user request, adding the first concept to the machine-readable network of interrelated concepts, including adding the primary term, the related term, the relationship between the first concept and the second concept, the relationship type, and the strength value to the machine-readable network of interrelated concepts.

21. (Currently Amended) The computer-readable media of claim 20, wherein representing the association comprises displaying [[of]] a concept view.

22. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving information characterizing a part of speech of the first concept.

23. (Previously Presented) The computer-readable media of claim 20, wherein the relationship comprises a hierarchical relationship or a lateral bond that indicates a proximity of the first concept to the second concept in semantic space.

24. (Previously Presented) The computer-readable media of claim 20, wherein the relationship type is selected from the group consisting of: kind of, has kind, part of, has part, member of, has member, substance of, has substance, product of, or has product.

25. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving information characterizing a frequency of the primary term.

26. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving information characterizing a likelihood that the primary term and the related terms imply the first concept.

27. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving information characterizing a breadth of the first concept.

28. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving information indicating that the first concept is offensive.

29. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving user data further describing the first concept.

30. (Previously Presented) The computer-readable media of claim 20, wherein the operations further comprise receiving redefinition information.

31. (Currently Amended) One or more computer-readable media comprising program code tangibly embodied in machine-readable format and operable to cause one or more machines to perform operations, the operations comprising:

receiving, from a user, a request to edit a first concept in a machine-readable network of interrelated concepts, wherein a concept comprises a normalized semantic representation;

representing the first concept on a display for the user, ~~that includes~~ including displaying a collection of one or more terms that express the first concept and a description of one or more existing relationships between the first concept and other concepts in the machine-readable network of interrelated concepts;

receiving, from [[a]] the user, at least one new relationship between the first concept and a second concept;

receiving a relationship type characterizing a type of the at least one new relationship;

receiving a strength value characterizing a strength of the at least one new relationship;

updating the ~~first concept~~ machine-readable network of interrelated concepts to reflect the at least one new relationship, the relationship type, and the strength value; ~~and~~

representing the updated first concept on the display for the user, wherein the display ~~further~~ includes a description of the at least one new relationship.

32. (Previously Presented) The computer-readable media of claim 31, wherein the operations further comprise receiving a new strength value for one of the existing relationships between the first concept and a third concept.

33. (Previously Presented) The computer-readable media of claim 31, wherein the operations further comprise receiving a new relationship type for one of the existing relationships between the first concept and a third concept.

34. (Previously Presented) The computer-readable media of claim 31, wherein the new relationship comprises a hierarchical relationship or a lateral bond that indicates a proximity of the first concept to the second concept in semantic space.

35. (Previously Presented) The computer-readable media of claim 31, wherein the relationship type is selected from the group consisting of: kind of, has kind, part of, has part, member of, has member, substance of, has substance, product of, or has product.

36. (Previously Presented) The computer-readable media of claim 31, wherein the operations further comprise receiving information characterizing a new frequency of the primary term.

37. (Previously Presented) The computer-readable media of claim 31, wherein the operations further comprise receiving information characterizing a new likelihood that a primary term and related terms imply the first concept.

38. (Previously Presented) The computer-readable media of claim 31, wherein the operations further comprise receiving information characterizing a new breadth of the first concept.

39. (Previously Presented) The method of claim 1, wherein the related term comprises a synonym or acronym of the primary term.

40. (Previously Presented) The computer-readable media of claim 20, wherein the related term comprises a synonym or acronym of the primary term.

41. (Currently Amended) A user display comprising:

~~a visual rendition of an identifier of a first concept in [[an]] a machine-readable ontology of concepts, wherein a concept comprises a normalized semantic representation;~~  
~~a visual rendition of a collection list of [[one]] two or more terms that represent the first concept;~~

~~a visual rendition of relationships between the first concept and other concepts in the ontology, the visual rendition of the relationships comprising a first description that a first relationship between the first concept and a second concept is a list of two or more parent/child relationship relationships between the first concept and other concepts in the ontology;[[],]~~

~~a second description that a second relationship between the first concept and a third concept is a list of two or more child/parent relationship relationships between the first concept and other concepts in the ontology;[[],]~~ and

~~a third description that a third relationship between the first concept and a fourth concept is a list of two or more lateral relationship relationships between the first concept and other concepts in the ontology.~~

42. (Previously Presented) The graphical display of claim 41, wherein at least one of the first description, the second description, and the third description includes information describing that one or more of the first relationship, the second relationship, and the third relationship is a “kind of” relationship, a “has kind” relationship, a “part of” relationship, a “has part”

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relationship, a “member of” relationship, a “has member” relationship, a “substance of” relationship, a “has substance” relationship, a “product of” relationship, or a “has product” relationship.